

IN THE CLAIMS

1-10. (canceled)

11. (currently amended) A membrane comprising a composition including

- (a) 10 to 90 wt-% of at least one polyurethane elastomer comprising at least one hard segment and at least one soft segment, and

- (b) 90 to 10 wt-% of a solid,

wherein said solid is incorporated in said at least one polyurethane elastomer, and the melting point of the hard segment is more than 100°C.

12. (previously presented) A membrane according to claim 11, wherein the at least one polyurethane elastomer is a thermoplastic polyurethane elastomer.

13. (previously presented) Membrane according to claim 11, wherein the solid has a primary particle size of 0.005 to 30 microns.

14. (currently amended) Membrane according to claim 11, wherein the ~~polyurethane elastomer has at least one of the following characteristics:~~

- ~~(a) a melting point of the hard segment of more than 100 °C, and~~

- ~~(b) the~~

soft segment comprises ether linkages, ester linkages or carbonate linkages or a combination of two or more thereof.

15. (currently amended) Membrane according to claim 11, wherein the solid is an inorganic basic compound which is selected from the group consisting of oxides, mixed oxides, silicates, sulfates, carbonates, phosphates, nitrides, amides, imides and carbides of the I, II, III, or IV main group or the IV

side group of the periodic table; a polymer being selected from the group consisting of polyethylene, polypropylene, polystyrene, ~~poly(tetrafluorethylene)~~ poly(tetrafluorethylene), poly(vinylidene fluoride), polyamides, polyimides; a solid dispersion comprising such a polymer, or mixtures of two or more thereof.

16. (currently amended) Membrane according to claim 12, wherein the solid is an inorganic basic compound which is selected from the group consisting of oxides, mixed oxides, silicates, sulfates, carbonates, phosphates, nitrides, amides, imides and carbides of the elements of the I, II, III, or IV main group or the IV side group of the periodic table; a polymer being selected from the group consisting of polyethylene, polypropylene, polystyrene, ~~poly(tetrafluorethylene)~~ poly(tetrafluorethylene), poly(vinylidene fluoride), polyamides, polyimides; a solid dispersion comprising such a polymer, or mixtures of two or more thereof.
17. (currently amended) Membrane according to claim 13, wherein the solid is an inorganic basic compound which is selected from the group consisting of oxides, mixed oxides, silicates, sulfates, carbonates, phosphates, nitrides, amides, imides and carbides of the elements of the I, II, III, or IV main group or the IV side group of the periodic table; a polymer being selected from the group consisting of polyethylene, polypropylene, polystyrene, ~~poly(tetrafluorethylene)~~ poly(tetrafluorethylene), poly(vinylidene fluoride), polyamides, polyimides; a solid dispersion comprising such a polymer, or mixtures of two or more thereof.
18. (currently amended) Membrane according to claim 14, wherein the solid is an inorganic basic compound which is selected from the group consisting of oxides, mixed oxides, silicates, sulfates, carbonates, phosphates, nitrides, amides,

imides and carbides of the elements of the I, II, III, or IV main group or the IV side group of the periodic table; a polymer being selected from the group consisting of polyethylene, polypropylene, polystyrene, ~~poly(tetrafluorethylene)~~ poly(tetrafluorethylene), poly(vinylidene fluoride), polyamides, polyimides; a solid dispersion comprising such a polymer, or mixtures of two or more thereof.

19. (previously presented) Composite comprising at least one first layer comprising an electron conducting electrochemically active compound, and at least one second layer comprising the membrane according to claim 11 and being free of an electron-conducting electrochemically active compound.
20. (previously presented) Composite comprising at least one first layer comprising an electron- conducting electrochemically active compound, and at least one second layer comprising the membrane according to claim 12 and being free of an electron-conducting electrochemically active compound.
21. (previously presented) Composite comprising at least one first layer comprising an electron-conducting electrochemically active compound, and at least one second layer comprising the membrane according to claim 13 and being free of an electron-conducting electrochemically active compound.
22. (previously presented) Composite comprising at least one first layer comprising an electron-conducting electrochemically active compound, and at least one second layer comprising the membrane according to claim 14 and being free of an electron-conducting electrochemically active compound.
23. (previously presented) Composite comprising at least one first layer comprising

an electron-conducting electrochemically active compound, and at least one second layer comprising the membrane according to claim 15 and being free of an electron-conducting electrochemically active compound.

24. (previously presented) Composite according to claim 19, wherein said at least one first layer comprises an electron conducting electrochemically active compound being generally used for cathodes.

25. (previously presented) Composite according to claim 19, wherein said at least one first layer comprises an electron-conducting electrochemically active compound, as generally used for anodes.

26-28. (canceled)

29. (currently amended) An electrochemical cell which comprises a membrane according to claim 11 ~~or a combination of two or more thereof~~.

30. (previously presented) An electrochemical cell which comprises a composite according to claim 19 or a combination of two or more thereof.

31. (new) Membrane according to claim 11, wherein the polyurethane elastomer contains at least two thermoplastic, nonelastic polymer blocks having a melting temperature above 100 °C and an average molecular weight of 240 to 10,000 (hard segment) and between said thermoplastic, nonelastomeric polymer blocks an elastomeric block having a glass transition temperature below 10 °C and an average molecular weight of about 240 to 100,000.